

Safety Data Sheet

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Document group:	11-8105-6	Version number:	4.00
Issue Date:	25/05/2014	Supersedes date:	01/11/2013

This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

SECTION 1: Identification

1.1. Product identifier 3M(TM) Scotch(R) hIPA Clean 300

Product Identification Numbers AS-0104-1894-0

1.2. Recommended use and restrictions on use

Recommended use

Aerosol solvent to clean surfaces prior to the application of a 3M tape or adhesive., Industrial use.

For Industrial or Professional use only.

1.3. Supplier's details

Address:3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113Telephone:136 136E Mail:productinfo.au@mmm.comWebsite:www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Flammable Aerosol: Category 1. Serious Eye Damage/Irritation: Category 2. Specific Target Organ Toxicity (single exposure): Category 1.

2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product

label.

Signal word DANGER!

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



H319Causes serious eye irritation.H370Causes damage to organs: cardiovascular system H371May cause damage to organs: cardiovascular system Precautionary statementsPrevention: P210P210Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. P251P251Do not pierce or burn, even after use. P260P260Do not breathe dust/fume/gas/mist/vapours/spray. P280AP270Do not eat, drink or smoke when using this product. P264P264Wash thoroughly after handling.Response: P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove co lenses, if present and easy to do. Continue rinsing.	
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P337 + P313 If eye irritation persists: Get medical advice/attention.	
P307 + P311 IF exposed: Call a POISON CENTRE or doctor/physician.	
P321 Specific treatment (see Notes to Physician on this label).	
Storage:	
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.	
P405 Store locked up.	
Disposal: P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.	

2.3. Other assigned/identified product hazards None known.

2.4. Other hazards which do not result in classification

May cause drowsiness or dizziness.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight	
Propan-2-ol	67-63-0	> 60	
Propane	74-98-6	10 - 30	
Isobutane	75-28-5	< 10	
Butane	106-97-8	< 10	
Ethane	74-84-0	< 10	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. Get medical attention.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Hazchem Code: 2YE

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate

the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not use in a confined area with minimal air exchange. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Butane	106-97-8	ACGIH	STEL:1000 ppm	
Butane	106-97-8	Australia OELs	alia OELs TWA(8 hours):1900	
			mg/m3(800 ppm)	
Propan-2-ol	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	
Propan-2-ol	67-63-0	Australia OELs	TWA(8 hours):983	
			mg/m3(400 ppm);STEL(15	
			minutes):1230 mg/m3(500	
			ppm)	
Ethane	74-84-0	ACGIH		
Ethane	74-84-0	Australia OELs	Limit value not established:	Explosion hazard,
				asphyxiant
Propane	74-98-6	ACGIH	Limit value not established:	
Propane	74-98-6	Australia OELs	Limit value not established:	Explosion hazard,
				asphyxiant

Isobutane	75-28-5	ACGIH	STEL:1000 ppm	
ACGIH · American Conference of Governmental Industrial Hygienists				

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect vented goggles.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Wear protective gloves.

Gloves made from the following material(s) are recommended: Nitrile rubber.

Select and use gloves according to AS/NZ 2161.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece supplied-air respirator.

For questions about suitability for a specific application, consult with your respirator manufacturer. Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Specific Physical Form: Appearance/Odour Odour threshold pH Melting point/Freezing point Liquid. Aerosol Isopropanol odour; Clear, colourless *No data available. Not applicable. Not applicable.*

Boiling point/Initial boiling point/Boiling range	82 °C
Flash point	<=0 °C
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	2 %
Flammable Limits(UEL)	12 %
Vapour pressure	No data available.
Vapour density	2.1 [<i>Ref Std</i> :AIR=1]
Density	0.6 g/ml
Relative density	0.6 [<i>Ref Std</i> :WATER=1]
Water solubility	<i>No data available.</i>
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Volatile organic compounds (VOC)	No data available.
Percent volatile	100 % weight
VOC less H2O & exempt solvents	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability Stable.

10.3. Conditions to avoid Heat.

10.4. Possibility of hazardous reactions Hazardous polymerisation will not occur.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition products

Substance

Carbon monoxide. Carbon dioxide. Condition Not specified. Not specified.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Intentional concentration and inhalation may be harmful or fatal. Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Single exposure, above recommended guidelines, may cause:

Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000
-	-		mg/kg
Propan-2-ol	Dermal	Rabbit	LD50 12,870 mg/kg
Propan-2-ol	Inhalation-Vapor (4	Rat	LC50 72.6 mg/l
	hours)		
Propan-2-ol	Ingestion	Rat	LD50 4,710 mg/kg
Propane	Inhalation-Gas (4	Rat	LC50 > 200,000 ppm
	hours)		
Isobutane	Inhalation-Gas (4	Rat	LC50 276,000 ppm
	hours)		
Butane	Inhalation-Gas (4	Rat	LC50 277,000 ppm
	hours)		- •
Ethane	Inhalation-Gas		LC50 estimated to be $> 50,000$ ppm

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

Propan-2-ol	Multiple animal species	No significant irritation
Propane	Rabbit	Minimal irritation
Isobutane		No significant irritation
Butane		No significant irritation
Ethane		No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Propan-2-ol	Rabbit	Severe irritant
Propane	Rabbit	Mild irritant
Isobutane		No significant irritation
Butane	Rabbit	No significant irritation
Ethane		No significant irritation

Skin Sensitisation

Name	Species	Value
Propan-2-ol	Guinea pig	Not sensitizing

Respiratory Sensitisation

Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
Propan-2-ol	In Vitro	Not mutagenic
Propan-2-ol	In vivo	Not mutagenic
Propane	In Vitro	Not mutagenic
Isobutane	In Vitro	Not mutagenic
Butane	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Propan-2-ol	Inhalation	Rat	Some positive data exist, but the data
			are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Propan-2-ol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	during organogenesis
Propan-2-ol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	LOAEL 9 mg/l	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

Propan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Propan-2-ol	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 13.4 mg/l	24 hours
Propan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Propane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Propane	Inhalation	respiratory irritation	All data are negative	Human	NOAEL Not available	
Isobutane	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
Isobutane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Isobutane	Inhalation	respiratory irritation	All data are negative	Mouse	NOAEL Not available	
Butane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
Butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Butane	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 5,000 ppm	25 minutes
Butane	Inhalation	respiratory irritation	All data are negative	Rabbit	NOAEL Not available	
Ethane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Ethane	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 150,000 ppm	not available

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-2-ol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 12.3 mg/l	24 months
Propan-2-ol	Inhalation	nervous system	All data are negative	Rat	NOAEL 12 mg/l	13 weeks
Propan-2-ol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not	Rat	NOAEL 400 mg/kg/day	12 weeks

			sufficient for classification			
Isobutane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,500 ppm	13 weeks
Butane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,489 ppm	90 days
Butane	Inhalation	blood	All data are negative	Rat	NOAEL 4,489 ppm	90 days

Aspiration Hazard

Name	Value

Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects

Not determined.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Ethane	74-84-0		Laboratory		LC50	>100 mg/l
Ethane	74-84-0		Laboratory		NOEC	>100 mg/l
Ethane	74-84-0		Data not available or insufficient for classification			
Propane	74-98-6		Data not available or insufficient for classification			
Isobutane	75-28-5		Data not available or			

			insufficient for classification			
Propan-2-ol	67-63-0	Fathead minnow	Experimental	96 hours	LC50	6,120 mg/l
Propan-2-ol	67-63-0	Crustacea	Experimental	48 hours	EC50	1,400 mg/l
Propan-2-ol	67-63-0	Algae	Experimental	24 hours	EC50	>1,000 mg/l
Propan-2-ol	67-63-0	Water flea	Experimental	21 days	NOEC	30 mg/l
Butane	106-97-8		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethane	74-84-0	Laboratory		Photolytic half-	119.74 days (t	Other methods
		Photolysis		life (in air)	1/2)	
Propane	74-98-6	Experimental		Photolytic half-	27.5 days (t	Other methods
-		Photolysis		life (in air)	1/2)	
Isobutane	75-28-5	Experimental		Photolytic half-	13.7 days (t	Other methods
		Photolysis		life (in air)	1/2)	
Propan-2-ol	67-63-0	Experimental	14 days	BOD	86 % weight	OECD 301C - MITI
-		Biodegradation	-			test (I)
Butane	106-97-8	Experimental		Photolytic half-	12.3 days (t	Other methods
		Photolysis		life (in air)	1/2)	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethane	74-84-0	Laboratory Bioaccumulati on		Log Kow	1.81	Other methods
Propane	74-98-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Isobutane	75-28-5	Experimental BCF - Other		Bioaccumulati on factor	1.97	Other methods
Propan-2-ol	67-63-0	Experimental Bioconcentrati on		Log Kow	0.05	Other methods
Butane	106-97-8	Experimental Bioconcentrati on		Log Kow	2.89	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

SECTION 14: Transport Information

Australian Dangerous Goods Code (ADG) - Road/Rail Transport UN No.: UN1950 Proper shipping name: Aerosols Class/Division: 2.1 Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: 2YE IERG: 49

International Air Transport Association (IATA) - Air Transport UN No.: UN1950 Proper shipping name: Aerosols, Flammable Class/Division: 2.1 Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG)- Marine Transport UN No.: UN1950 Proper shipping name: Aerosols Class/Division: 2.1 Sub Risk: Not applicable. Packing Group: Not applicable. Marine Pollutant: Not applicable. Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory Status:

The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

Poison Schedule:This product has not been assessed for poisons scheduling as the product is intended for industrial and professional use only.

SECTION 16: Other information

Revision information:

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Australia SDSs are available at www.3m.com.au